PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

RECEIVED

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		•	nt's file reference	FOR FURTHER AC	TION See Notificatio	n of Transmittar of International					
۲25	535P	COO			Preliminary Ex	amination Report (Form PCT/IPEA/416)					
International application No.				International filing date (day/month/year)	Priority date (day/month/year)					
PCT/ZA 03/00182				08.12.2003		12.12.2002					
International Patent Classification (IPC) or both national classification and IPC											
F41A25/22											
' ' '	F41A23/22										
Applicant											
DENEL (PTY) LTD et al.											
1.	This	interr	national preliminary exam	mination report has been applicant according to	n prepared by this Inte	ernational Preliminary Examining					
	Autil	Only a	and is transmitted to the	applicant according to	Article 30.						
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.										
				,,							
		This	report is also accompa	nied by ANNEXES, i.e.	sheets of the descripti	on, claims and/or drawings which have					
						rectifications made before this Authority					
	(see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).										
	Thes	se ani	nexes consist of a total	of sheets.							
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			, <u>.</u>	<u> </u>							
3.	This	repo	rt contains indications re	elating to the following it	ems:	•					
İ	1	\boxtimes	Basis of the opinion								
	H		Priority			•					
	 III	⊠	•	oninion with regard to n	ovalty invantive sten	and industrial applicability					
	١٧			•	overty, inventive step	and moderna approaphity					
	V	⊠	Lack of unity of invent			wently a stan or industrial applicability.					
1	V	Ы	citations and explanat	under Hule 66.2(a)(ii) wi tions supporting such sta	tn regard to noveity, ir atement	nventive step or industrial applicability;					
	VI		Certain documents cit	• • •							
	VII			international application	 						
1	VIII			on the international appl							
	V 111		Certain observations	on the international appr	iodion						
Date of submission of the demand					Date of completion of t	nis repoπ					
02.	06.20	υ4			07.09.2004						
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		Eu	ropean Patent Office								
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/ZA 03/00182

 Basis of the report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages							
	1-7		as originally filed					
	Cla	ims, Numbers						
	1-1	·	as originally filed					
		•	do oliginally filod					
	Dra	wings, Sheets						
	1/3-	-3/3	as originally filed					
2.	With regard to the language , all the elements marked above were available or furnished to this Authority in language in which the international application was filed, unless otherwise indicated under this item.							
	The	ese elements were av	railable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
3.	Witl inte	h regard to any nucl e rnational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
	☐ furnished subsequently to this Authority in written form.							
☐ furnished subsequently to this Authority in computer readable form.								
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
1.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

International application No.

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sheet contact report.)	ining s	uch amendn	nents must be referred to under item 1 and annexed to this					
6.	Add	ditional observations, if necessary:								
III.	Nor	n-establishment of opinion wi	th reg	ard to nove	ty, inventive step and industrial applicability					
1.	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-byious), or to be industrially applicable have not been examined in respect of:								
		the entire international application,								
	\boxtimes	claims Nos. 15-17								
		the said international application, or the said claims Nos. relate to the following subject matter which not require an international preliminary examination (specify):								
	⊠	the description, claims or drawings (indicate particular elements below) or said claims Nos. 15-17 are unclear that no meaningful opinion could be formed (specify):								
		see separate sheet								
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.								
		no international search report has been established for the said claims Nos.								
2. A meaningful international preliminary examination cannot be carried out due to the failure of the or amino acid sequence listing to comply with the standard provided for in Annex C of the Administructions:										
	□.	the written form has not been furnished or does not comply with the Standard.								
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.					
٧.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	Sta	atement								
	Nov	velty (N)	Yes: No:	Claims Claims	1-14					
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-14					
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-14					

2. Citations and explanations

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see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item III

It is not clear which technical features should be included in claims 15-17 (Art.6 PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-4483235 D2: US-A-4168049

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows a gun tube support assembly, including a bush housing (10) and a cradle bush (11) for the bush housing for receiving and supporting the gun tube.

The subject-matter of claim 1 differs from this known support in that it is comprised of a plurality of support sections arranged annularly around a gun tube, and in that it further comprises a damping means sandwiched between the bush housing and cradle bush.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention is to increase firing accuracy and lifespan of the gun.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) because a segmented bush housing is not disclosed in the prior art. The bush housing in D2 (ref. 32) is a unitary ring. Damping means are disclosed in D2. However, the mount shown in D2 is not a cradle bush: the barrel is fixed in the mount and can only widen radially. In axial direction it is fixed.

Claims 2-14 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

The invention is industrially applicable.